

# S219 Brookfield Country Club Sewer Lining Project

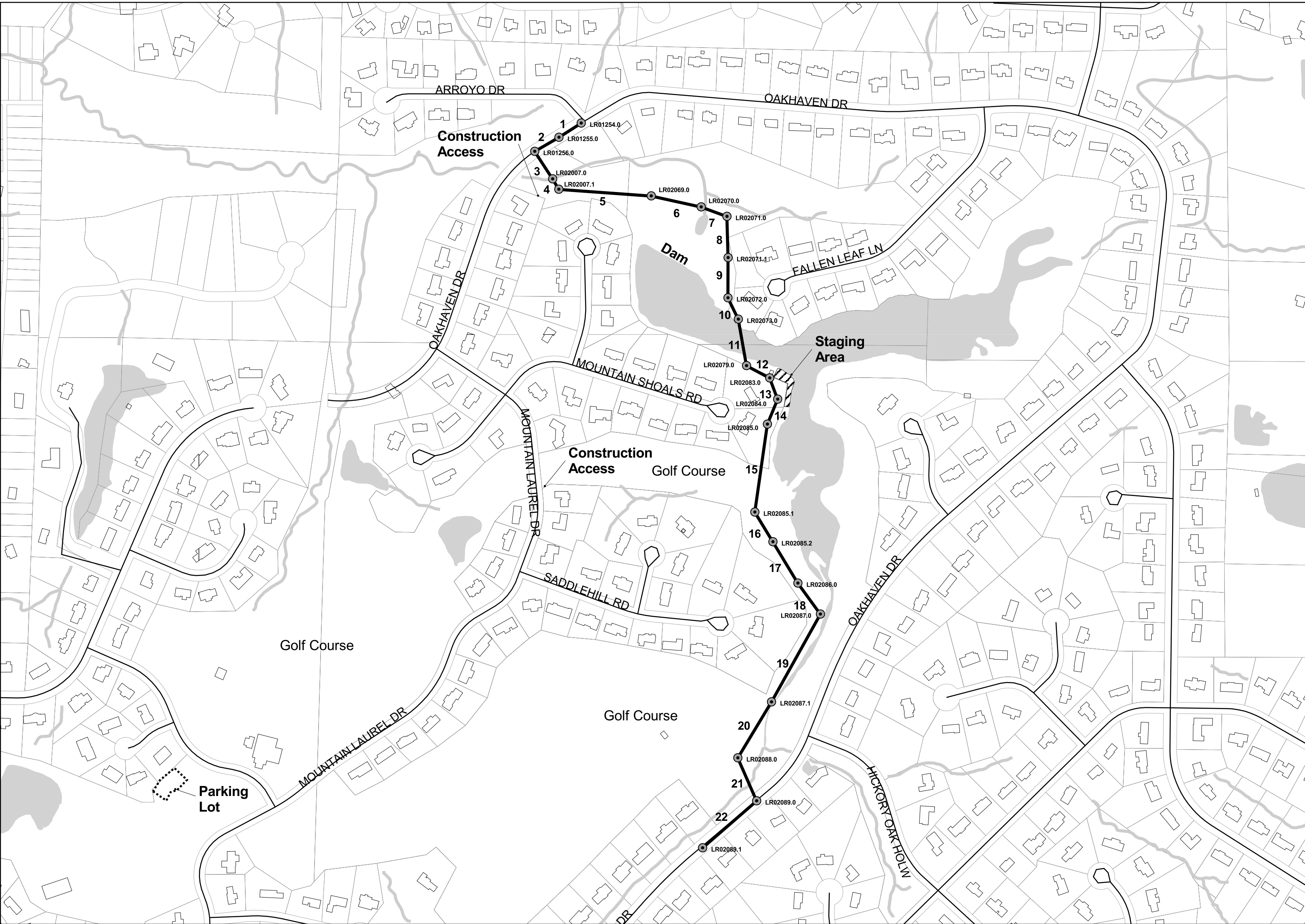
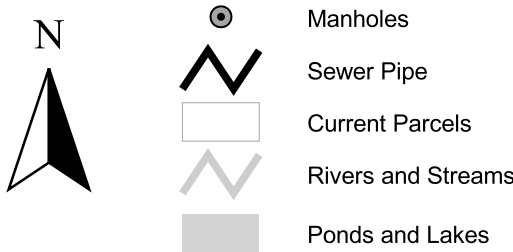
DRAWING A

Date: May 2, 2006

PIPE DATA			
Line Segment	Segment Length (ft)	Diameter (in)	Material
1	118	12	CON
2	125	12	CON
3	146	12	CON
4	54	12	CON
5	413	12	CIP
6	227	12	CIP
7	122	12	CIP
8	183	12	CIP
9	179	21	CON
10	106	10	PVC
11	210	10	CON
12	116	12	CLA
13	101	12	CLA
14	120	12	CLA
15	396	12	CON
16	155	12	CON
17	215	12	CLA
18	170	12	CLA
19	447	12	CLA
20	291	12	CLA
21	209	12	CON
22	319	8	CLA

MANHOLE DATA		
Manhole Number	Depth (ft)	Barrel (in)
LR01254.0	10.3	48
LR01255.0	0.0	0
LR01256.0	8.6	48
LR02007.0	0.0	0
LR02007.1	0.0	0
LR02069.0	8.7	48
LR02070.0	4.2	48
LR02071.0	6.3	48
LR02071.1	0.0	0
LR02072.0	17.0	48
LR02073.0	7.3	48
LR02079.0	11.8	48
LR02083.0	0.0	0
LR02084.0	10.8	48
LR02085.0	12.0	48
LR02085.1	0.0	0
LR02085.2	0.0	0
LR02086.0	15.0	48
LR02087.0	10.2	48
LR02087.1	7.1	48
LR02088.0	7.4	48
LR02089.0	10.0	48
LR02089.1	8.7	48

NOTE: All data to be verified by contractor



## GENERAL CONSTRUCTION NOTES

1. Pay items listed in the bid schedule are the only pay items for the project. Any other items necessary for a complete project, but not shown in the bid schedule shall be considered an incidental item and it's cost to be included in the scheduled items.
2. The Contractor shall verify all overhead and underground utility locations prior to construction. The Contractor shall be responsible for notifying all utility companies prior to commencing work in the project area. Likewise, the contractor is responsible for coordinating its work and that of the involved utilities in the project area.
3. Any Contractor-caused damage to utility and/or service lines, shown or not shown on the plans, shall be repaired or replaced using qualified and certified contractor or subcontractor forces at no cost to Fulton County.
4. Television inspection of pipelines shall be performed by experienced personnel trained in locating breaks, obstacles and service connections using closed circuit color television.
5. The Contractor shall be responsible for furnishing all labor, material, equipment and items needed to provide adequate construction signing, barricades, traffic control devices and other related items for the project area, during the construction period.
6. The Contractor shall notify Construction Manager and residents through County approved door hanger notification 48 hours in advance of when traffic is to be restricted on any street.
7. The Contractor shall be responsible for providing adequate safeguards, safety devices, protective equipment, flaggers, and any other needed actions to protect the life, health, and safety of the public, and to protect property in connection with the performance of work covered by the Contractor.
8. The Contractor shall be responsible for disconnecting and reconnecting all sewer service connections. Connections shall be identified, located and excavated prior to the pipe insertion to expedite reconnection. Upon commencement, pipe insertion shall be continuous and without interruption from one manhole to another, except as approved by the Construction Manager. Upon completion of insertion of the new pipe, the Contractor shall expedite the reconnection of services so as to minimize any inconvenience to the customers.
9. Sewer service connections shall be connected to the new pipe by mechanical methods or electrofusion methods. Once the saddle is secured in place, a hole shall be drilled full inside diameter of saddle outlet in pipe liner.
10. Manhole inverts shall be inspected and modified where necessary to accommodate larger pipe.
11. Bypass Pumping: The Contractor, when and where required, shall provide diversion for the sewer lining process. The pumps and by-pass lines shall be of adequate capacity and size to handle all flows.
12. The Contractor shall be responsible for continuity of sanitary sewer service to each customer, facility or residence connected to the section of sewer during the execution of the work.
13. If sewage backup occurs and enters housing, the Contractor shall be responsible for clean-up, repair, property damage cost and claims.
14. Insertion or launching pits shall only be allowed at locations of existing or proposed manholes, unless otherwise approved by the Construction Manager, to minimize impact of existing trees or shrubs.
15. Equipment used to perform the work shall be located away from houses so as to lessen the noise impact. Provide silencers or other devices to reduce machine noise as required to meet requirements.
16. The Contractor's representative on site directly responsible for the work shall be immediately contactable at any time during the normal working day and shall immediately respond to all or any query by the Construction Manager.
17. Daytime working is defined as 0700 to 1900 hours. No work shall be carried out at any other time or in excess of 8 hours per day on a Fulton County-recognized holiday, Saturday and Sunday, without permission in writing from the Construction Manager. In the event Contractor performs work beyond 8 hours per day, as approved by the Construction Manager, the Contractor shall be responsible for overtime costs for the County representative overseeing the work.
18. All work is required to proceed from down gradient to up gradient portion of the sewer.
19. Access to residences and facilities impacted by construction activities must be provided at all times.
20. Contractor must maintain the roadway to allow flow of traffic where construction activities are in progress.